

UNITED STATES  
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

Form approved.  
Budget Bureau No.1004-0136  
Expires: December 31, 1991

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF-078416-A	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> Other <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY 778 Gail M. Jefferson		7. UNIT AGREEMENT NAME	
3. ADDRESS AND TELEPHONE NO. P.O. BOX 800, DENVER, COLORADO 80201 (303) 830-6157		8. FARM OR LEASE NAME, WELL NO. Hardie LS #5B	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2350' FSL 1160' FWL At proposed prod. zone Unit L		9. API WELL NO. 30-045-29714	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 23 Township 29N Range 8W		10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde 72319	
12. COUNTY OR PARISH San Juan		13. STATE New Mexico	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 9 miles from the town of Blanco, New Mexico		16. NO. OF ACRES IN LEASE 1600.00	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		17. NO. OF ACRES ASSIGNED TO THIS WELL W/ 320.00	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		19. PROPOSED DEPTH 5768'	
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* 11-01-1998	
21. ELEVATIONS (Show whether DF, RT, GR., etc.) This action is subject to technical and procedural review pursuant to 43 CFR 3165.4 and appeal pursuant to 43 CFR 3165.4.		22. APPROX. DATE WORK WILL START* 11-01-1998	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12.25	K-55 9.625	36#	250'	172 cu. ft. CI B to surface
8.75	K-55 7.000	20#	3183'	853 cu. ft. CI B to surface
6.25	K-55 4.500	10.5#	5768'	385 cu. ft. CI. B to 2938'

Notice of Staking submitted as Hardie LS #5B on 9/9/98.

Lease Description: T29N-R8W  
Sec. 23: All  
Sec. 25: All  
Sec. 26: E/2

containing 1600.00 acres, more or less.

RECEIVED  
OCT 29 1998  
OIL CON. DIV.  
DIST. 3

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Gail M. Jefferson TITLE Sr. Admin. Staff Asst. DATE 9/28/98  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to these rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Duane W. Spencer TITLE \_\_\_\_\_ DATE OCT 27 1998

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

District I  
O Box 1980, Hobbs NM 88241-1980  
District II  
O Drawer KK, Artesia, NM 87211-0719  
District III  
000 Rio Benaco Rd., Aztec, NM 87410  
District IV  
O Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994

Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-29714		2 Pool Code 72319		3 Pool Name Blanco Mesaverde		
4 Property Code 631		5 Property Name HARDIE LS			6 Well Number # 5B	
7 OGRID No. 000778		8 Operator Name AMOCO PRODUCTION COMPANY			9 Elevation 6418	

10 Surface Location

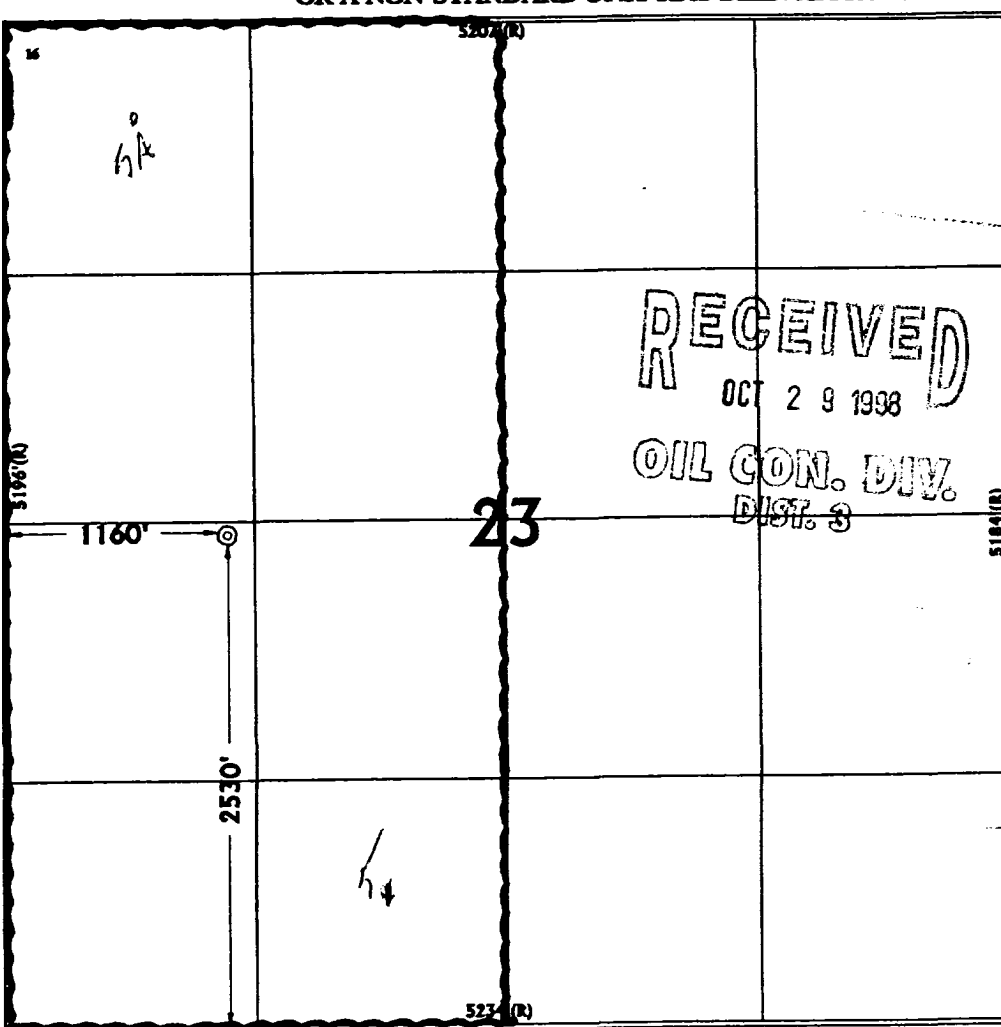
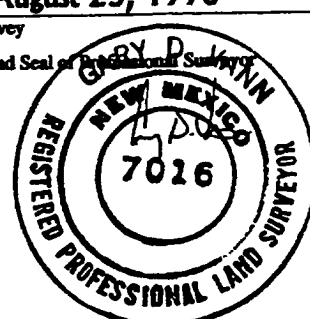
UL or Lot No. L	Section 23	Township 29 N	Range 8 W	Lot Idn	Feet from the 2530 2350	North/South line SOUTH	Feet from the 1160	East/West line WEST	County SAN JUAN
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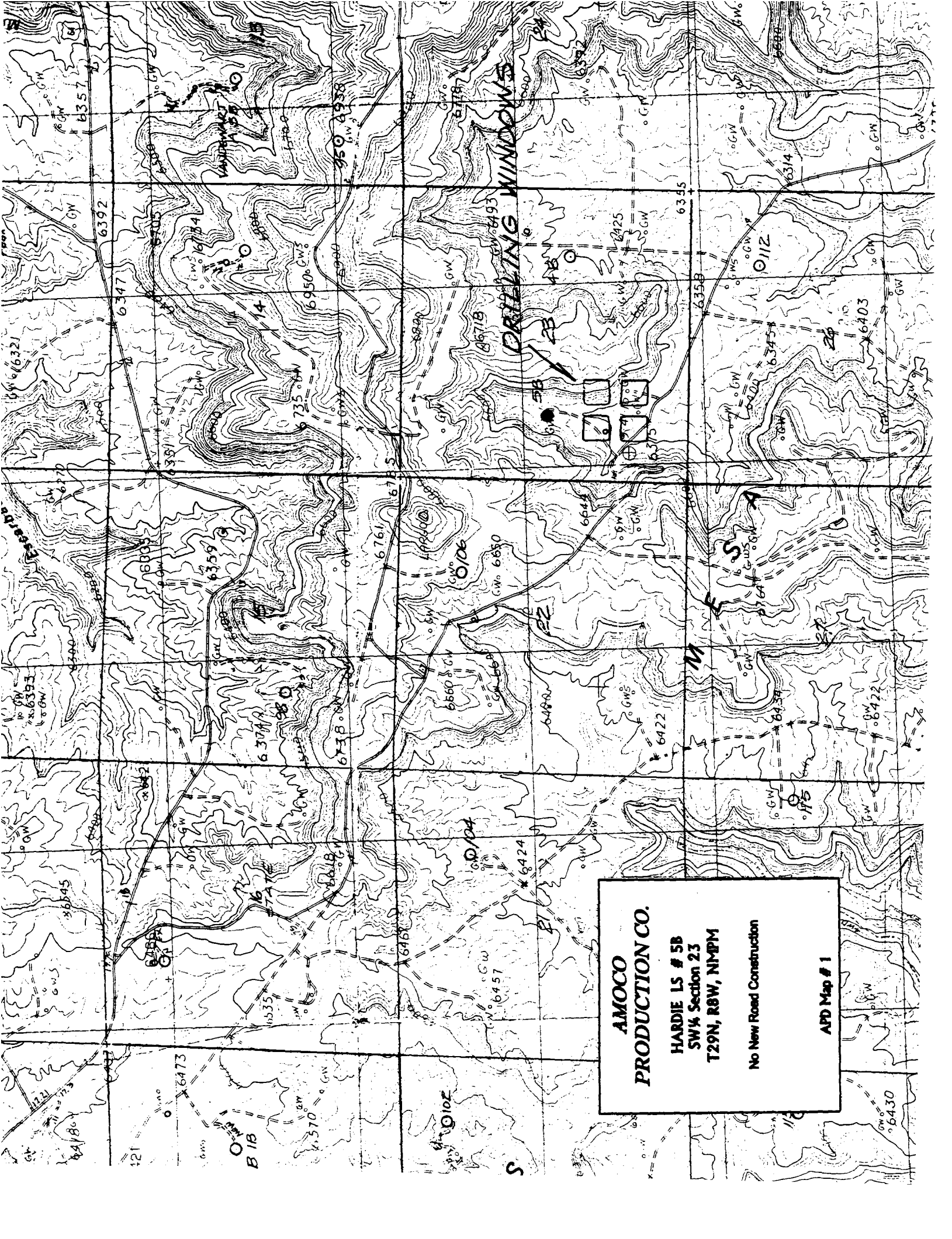
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres 320.00	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Gail M. Jefferson</i> Signature Gail M. Jefferson Printed Name Sr. Admin. Staff Asst. Title 9/8/98 Date</p>
	<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>August 25, 1998 Date of Survey Signature and Seal of Registered Surveyor  7016 Certificate Number</p>





NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

October 7, 1998

Amoco Production Company  
P. O. Box 800  
Denver, Colorado 80201-0800  
Attention: Pamela Staley

RECEIVED  
OCT 15 1998  
OIL CON. DIV.  
DIST. 3

Administrative Order NSL-4137

Dear Ms. Staley:

Reference is made to your application dated September 10, 1998, which was received by the New Mexico Oil Conservation Division ("Division") in Santa Fe on September 17, 1998, for an exception to the well location requirements provided within the "Special Rules and Regulations for the Blanco-Mesaverde Pool," as promulgated by Division Order No. R-10987, for a non-standard gas well location in an existing standard 320-acre stand-up gas spacing and proration unit for the Blanco-Mesaverde Pool comprising the W/2 of Section 23, Township 29 North, Range 8 West, NMPM, San Juan County, New Mexico. This unit is currently dedicated to Amoco Production Company's: (i) Hardie "LS" Well No. 5 (API No. 30-045-07946), the initial well on this unit, located at a standard gas well location 990 feet from the South line and 1650 feet from the West line (Unit N) of Section 23; and, (ii) Hardie "LS" Well No. 5-A (API No. 30-045-22749), located at a standard infill gas well location 800 feet from the North and West lines (Unit D) of Section 23.

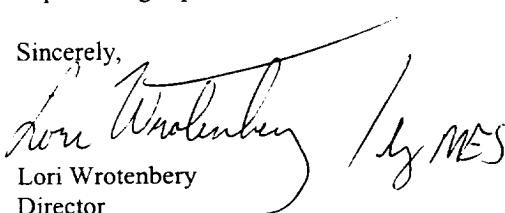
The application has been duly filed under the provisions of Division Rules 104.F and 605.B of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division").

By the authority granted me under the provisions of Division Rule 104.F(2), the following described well to be drilled at an unorthodox gas well location in Section 23 is hereby approved:

**Hardie "LS" Well No. 5-B  
2350' FSL & 1160' FWL (Unit L).**

Further, Amoco Production Company is authorized to dedicate Blanco-Mesaverde gas production on the subject unit from the proposed Hardie "LS" Well No. 5-B with the two existing Hardie "LS" Well Nos. 5 and 5-A. These three wells and the existing 320-acre unit will be subject to all existing rules, regulations, policies, and procedures applicable to prorated gas pools in Northwest, New Mexico.

Sincerely,

  
Lori Wrotenbery  
Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Aztec  
U. S. Bureau of Land Management - Farmington

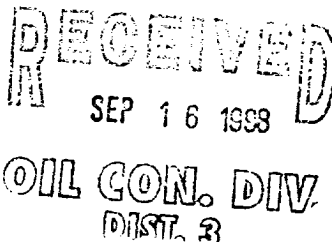


**Amoco Production Company**

Amoco Building  
1670 Broadway  
Post Office Box 800  
Denver, Colorado 80201-0800  
(303) 830-4040

September 10, 1998

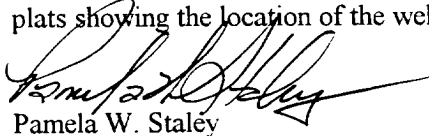
Ms. Lori Wrotenbery, Director  
New Mexico Oil Conservation Division  
2040 S. Pacheco Street  
P.O. Box 6429  
Santa Fe, NM 87505



**Application For Unorthodox Location**  
**Hardie LS #5B Well**  
**2350' FSL, 1160' FWL**  
**Unit L Section 23-T29N-R8W**  
**W/2 Spacing Unit**  
**Blanco Mesaverde Pool**  
**San Juan County, New Mexico**

Amoco Production Company hereby requests administrative approval for an unorthodox well location for the Hardie LS #5B well in the Blanco Mesaverde Pool. Amoco plans to drill this well at an unorthodox location as a third well in the existing spacing unit to access reserves which would otherwise be bypassed with the current well density. This well, as proposed, would be moving toward the center line of the spacing unit only and would be within the standard 790 foot setback from the outer boundaries of the spacing unit. We are locating this well toward the center of the spacing unit, away from the parent and original infill, which would cause it to fall outside the traditional drilling windows for the Blanco Mesaverde Pool.

A copy of this application will be submitted to the offset operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection, and return one copy to this office. Attached are plats showing the location of the well, offset operators, and all Mesaverde wells drilled in the area.

  
Pamela W. Staley

**Attachments**

cc: Frank Chavez, Supervisor  
NMOCD District III  
1000 Rio Brazos Road  
Aztec, NM 87410

Mark Yamasaki, Amoco  
Gail Jefferson, Amoco

**WAIVER**

\_\_\_\_\_ hereby waives objection to Amoco's application for an unorthodox well location for the Hardie LS #5B well described above.

By: \_\_\_\_\_

Date: \_\_\_\_\_

APPLICATION FOR APPROVAL OF UNORTHODOX LOCATION UNDER RULE 104-F

**Hardie LS #5B Well  
2350' FSL, 1160' FWL, Unit L Section 23-T29N-R8W  
Blanco Mesaverde Pool**

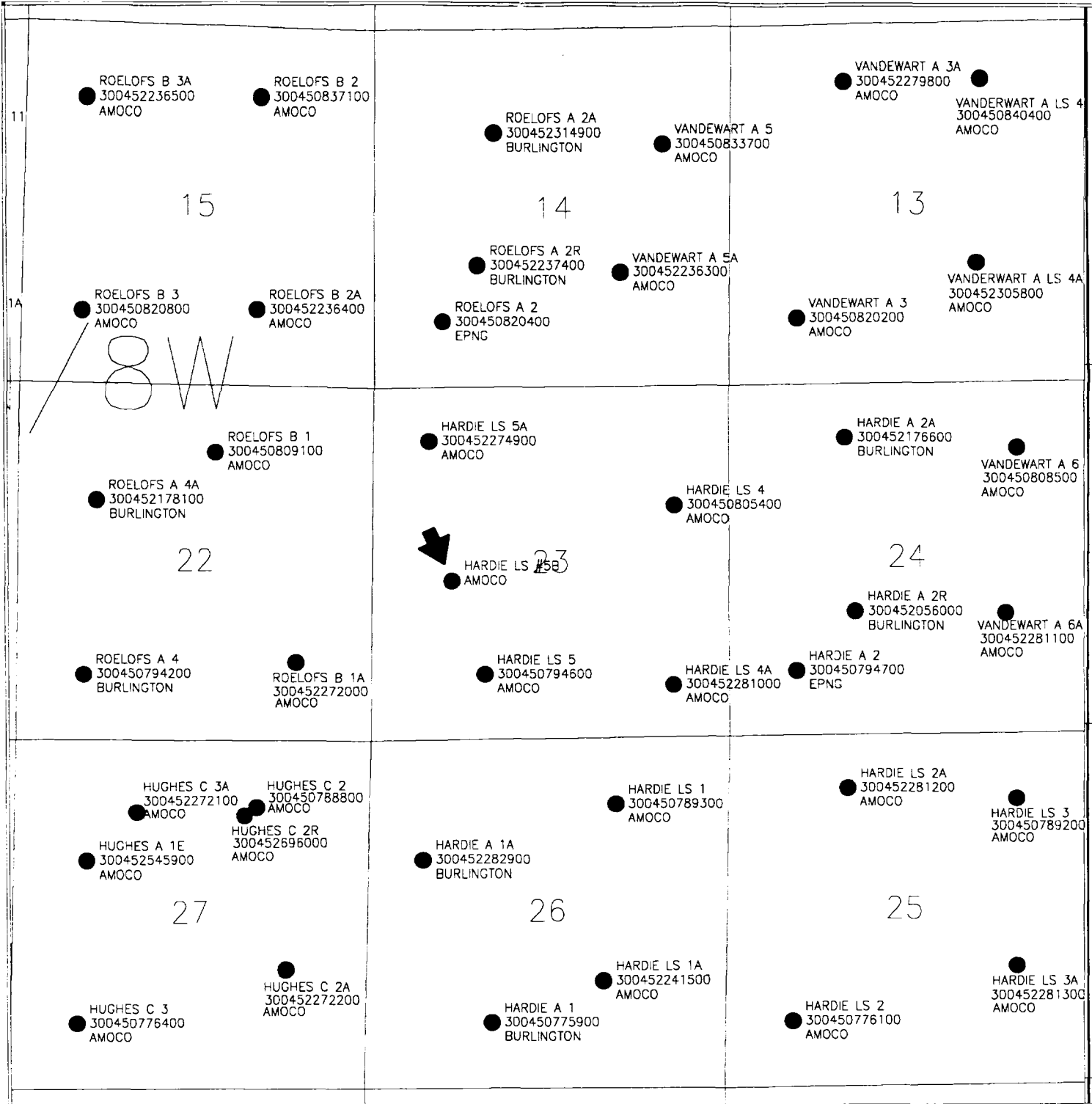
ATTACHMENTS:

- 9-SECTION PLAT SHOWING LOCATION OF ALL OFFSET WELLS
- FORM C-102 FOR MESAVERDE FORMATION
- LIST OF ALL OFFSET OPERATORS AND THEIR ADDRESSES

LIST OF ADDRESSES FOR OFFSET OPERATORS

1 Burlington Resources Oil and Gas Co.  
P.O. Box 4289  
Farmington, NM 87499

2 El Paso Natural Gas Co  
614 Reilly Ave  
Farmington, NM 87401



AMOCO PRODUCTION COMPANY

HARDIE LS #5B - NEW DRILL  
MESAVERDE - NINE SECTION PLAT  
29N-8W-23NW/SW

ALC

9/9/98

Scale 1:24623.58

PO Box 1980, Hobbs NM 88241-1980  
District II  
PO Drawer KK, Artesia, NM 87211-0719  
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10 Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	23	29 N	8 W		2350	SOUTH	1160	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

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12 Dedicated Acres 320.00	13 Joint or Infill	14 Consolidation Code	15 Order No.
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(R) - BLM Record